

Program Executive Office Special Programs



SOF Weapons

May 2002 COL Tom Spellissy



AGENDA

- **Introduction/Overview**
- **Multi-Role Anti-personnel Anti-Armor Weapon System (MAAWS)**
- **7.62 Lightweight Machine Gun**
- **Special Operations Peculiar Modifications**
- **Advanced Lightweight Grenade Launcher**



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MULTI-ROLE, ANTI-PERSONNEL, ANTI-ARMOR WEAPON SYSTEM (MAAWS)



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MAAWS SYSTEM DESCRIPTION

- Multi-Role Anti-Armor Anti-Personnel Weapon System
 - Provides shoulder fired weapon able to defeat multiple SOF targets
 - Rounds include: HEAT, Dual-Purpose, Area Defeat Munition, HE, Illum, Smoke, and Target Practice Trainer
 - Weapon system itself is reloadable, reuseable, and can be fitted with different optic devices
 - 84mm system



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PROGRESS TO DATE

- MAAWS is fielded with both WARCOM (SEAL TEAMS) and USASOC (RANGER Battalions)

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FUTURE EFFORTS

- New Versions of the Illumination Round and Smoke Round are under way
- Confined Space Capability
- Smaller, Lighter, just as capable, rounds and weapon system

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SCHEDULE

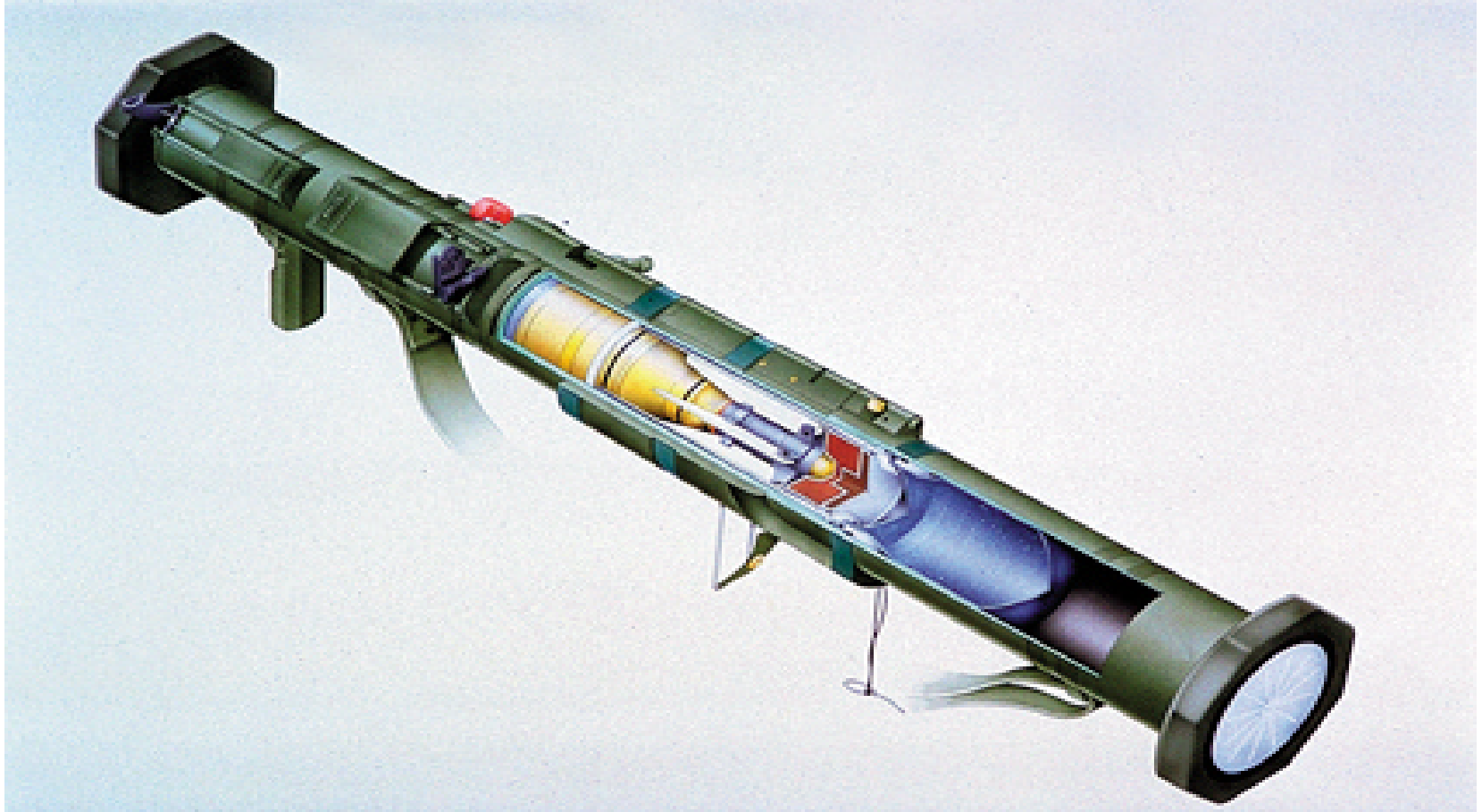
- MAAWS Fielded
- ADM round delivery Feb 03
- MAAWS CS capability FY 05/06

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AT4-CS



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AT4-CS SYSTEM DESCRIPTION

- AT4-CS program is subprogram of MAAWS
 - provides SOF with single use, confined space anti-armor weapon
 - first shoulder fired weapon in SOCOM inventory to provide CS capability



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PROGRESS TO DATE

- AT4-CS (NATO) is fielded to select SOCOM units with a type classified version ready for use in 4QFY02

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FUTURE EFFORTS

- Efforts have been evaluated to include a multi-target round in AT4-CS
 - this round should be able to defeat armor, walls (behind the wall/breach), and bunkers

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SCHEDULE

- AT4-CS (NATO) Dec 01
- AT4-CS IM Dec 02
- Multi Target Round (AT4-CS) FY 04/05

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USSOCOM POC

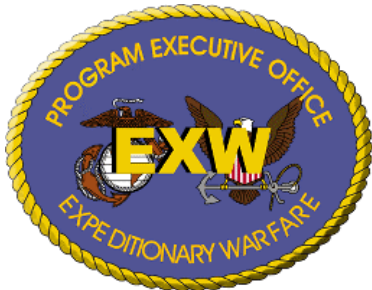
- Captain Kevin Rhodes
 - HQ USSOCOM
 - SOAL-SP
 - DSN 299-9352 comm (813) 828-9352

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7.62MM LWMG MK48 MOD0



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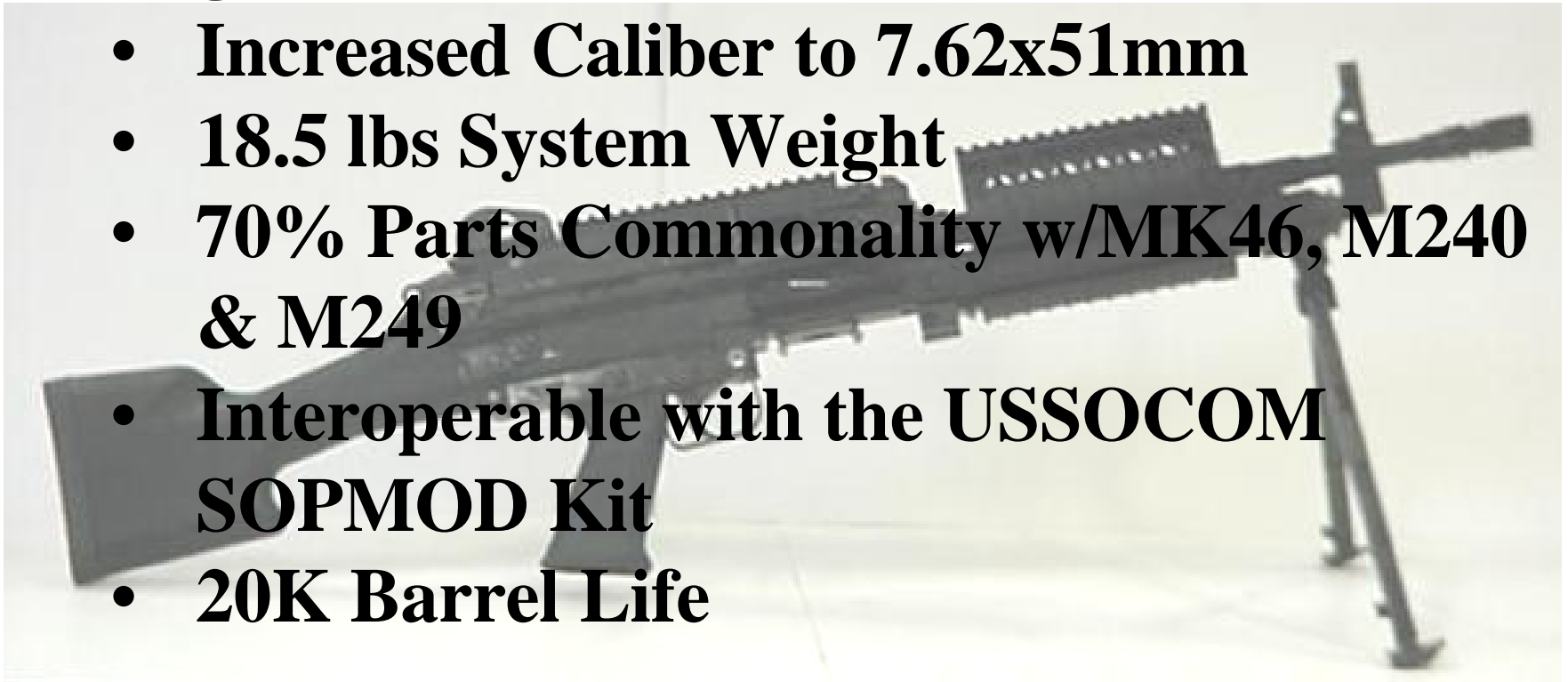


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WHAT IS A MK48 MOD0 LMG?

A “Big Brother” to the MK46 MOD0

- Increased Caliber to 7.62x51mm
- 18.5 lbs System Weight
- 70% Parts Commonality w/MK46, M240 & M249
- Interoperable with the USSOCOM SOPMOD Kit
- 20K Barrel Life



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WEAPON CHARACTERISTICS



Weapon provided with a Spare Barrel, Barrel Bag, BFA, Sling, Bipod, Front Sight Adjusting Tools, Ops Manual and Optional Collapsible Buttstock

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PROGRAM TENANTS

- **Obtain the “Best Value” Lightweight 7.62mm Machine Gun for USSOCOM in an Acceptable Timeframe**
- **Gain Up-Front Industry Involvement**
- **“Fly before you Buy” Test Strategy**
- **Maximize User Input in Source Selection Process**
- **Balance User Preference with Program Execution and Weapon Technical Considerations**

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WHY A MK48?

- **The current 7.62mm Machine Gun within the NSW Inventory (M60/MK43) has proven to be less than reliable, NSW users have lost confidence in the weapon and the weapon is becoming logistically unsupportable.**
- **USSOCOM approved a MNS/ORD on 21 March 2001 for a new Lightweight 7.62mm Machine Gun (LWMG). ORD requires 492 weapons.**
- **The 7.62mm LWMG program has been patterned after the MK46 Program.**

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ACQUISITION STRATEGY

- **FY01 Market Research yielded Competitive-NDI Procurement**
- **Use of “Draft” Performance Specifications**
- **Evaluation of Product Samples**
- **Best Value/IDIQ Contract**

Firm-Fixed Price/5 Year Option Availability

IDIQ Min - 6 LWMGs (First Articles)

IDIQ Max - 2500 LWMGs

Necessary Spare Parts and Logistics Documentation

- **Operational Assessment of First Article Units**



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MK48 BACKGROUND

- **Mid FY01 program start/FY02 FCT Funds approved**
- **Issued Procurement Solicitation on 27 Sept 01**
- **Received MS A/B approval from USSOCOM on 5 Oct 01**
- **Received Product Sample weapons on 1 March 02**
- **Awarded IDIQ Contract (N00164-02-D-0024) to FNMI on 8 March 02 for minimum qty (6) First Article weapons**

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7.62MM LWMG (MK48)

- **Ongoing Technical Testing of 3 each Product Samples**
To date, total rounds fired approx. 140K
Barrel life > 20K rounds
- **9-21 June 02, OA will be conducted using 6 each First Article units**
- **OA will verify Operational Effectiveness and Suitability of the MK48. May also reveal possible “improvements” to the weapons**

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WEAPON PERFORMANCE

Objective/Threshold

Actual

| | | |
|----------------------------------|------------------|----------------|
| Ammunition (KPP) | 7.62mmX51 | 7.62X51 |
| Weight (lbs) | 18/21 | 18.5 |
| Interoperability w/SOPMOD(rails) | 4 | 4 |
| Length (in) | 40/45 | 39.5 |
| Firing Rate (rpm) | 625/500 | 711 |
| Barrel Life | 25K/10K | 20K |

Weight includes bipod and rail system.

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PROGRAM SCHEDULE

| | |
|---|--------------|
| Conduct “ Complete ” Technical Testing | March-May 02 |
| Obtained Safety Release from WSESRB for OA | 12 April 02 |
| Receive (6 each) First Article Units | 5 June 02 |
| Perform Operational Assessment | 9-21 June 02 |
| Hold OA Debrief in Coronado | 21 June 02 |
| System Production Certification | August 02 |
| Milestone C Approval | September 02 |
| Issue Delivery Order for 492 LWMGs | September 02 |
| Material Release | Feb 03 |
| Receipt of Initial Production Units | March 03 |
| Conduct I&KPT | March 03 |
| FUE | April 03 |
| IOC | April 03 |
| FOC | July 03 |

Note: IOC and FOC are defined in the ORD

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SOPMOD Program

PRESENTED TO

NDIA

**Small Arms and
Infantry Weapons**

May 16th 2002

by

Mr. Gus Taylor



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AGENDA

- **Current Project Status**
- **PMO Structure**
- **Roadmap**
- **Army MWS Interface**

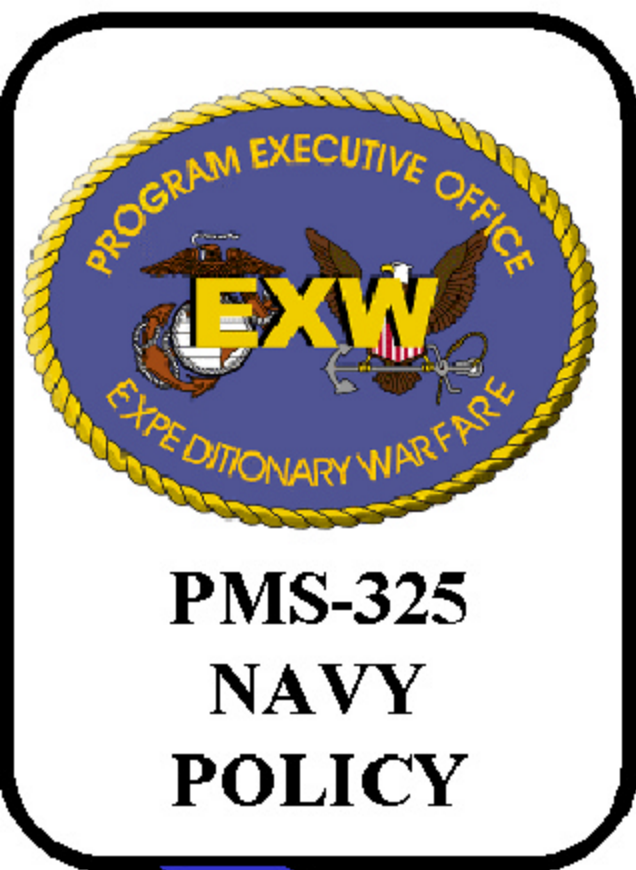


SOPMOD M4 Accessory Kit

Capabilities Required:

- ***Standardized versatile weapons accessories***
- ***Modular- meets needs across SOF mission scenarios***
- ***Increased operator survivability and lethality by weapon improvements, enhanced target acquisition, signature suppression, and fire control***
- ***Evolutionary Acquisition Block Upgrades:***
 - ***Block I***
 - ***Block II***
 - ***Block III and IV***

BOSSSES





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EXTERNAL CLIENTS



**New: FBI, USAF Security, 1st Armored Division,
Australia, DTRA, Japan, Egypt(?)**

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CURRENT PROJECT STATUS

Fieldings since last NDIA review in August:

- MNVS (Continues)
- ECOS-N (Finished)
- EPS#2 (Finished)
- UPM (Finished)
- HR Magazine (to some Combatants only, December)
- SPR-V (Ongoing Project)
- GLDNSM (Ongoing Project)
- Accelerated micro-fielding buys/builds:
 - SPR
 - VBL II
 - GLDNSM

SOPMOD M4

Accessory Kit

Special Operations Peculiar Modification to the M4 Carbine

Block I Accessory Kit



NAVSEA
Naval Sea Systems Command

SOPMOD M4 Block I Accessory Kit
Special Operations Peculiar Modification to the M4 Carbine

Program Summary
The SOPMOD M4 Program Management Office (PMO) is responsible for the development, testing, and production of the SOPMOD M4 Carbine. The program is managed by the Naval Sea Systems Command (NAVSEA) and the Naval Air Station (NAS) at Patuxent River, Maryland. The program is a joint effort between the Navy and the Marine Corps.

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BLOCK II PLAN



FY 01

FY 02

FY 03

FY 04

FY 05

FY 06

FY 07



Grenade Launcher

Day-Night Sight Mount
(GLDNSM)

Enhanced Combat
Optical Sight (ECOS)

Clip-On Night Vision
Device (CNVD)

M4A1 Extraction Parts Set

M4A1 Improved Magazine



M4A1 Improved Bolt



Family of Muzzle Brake/
Suppressors (FMBS)



Enhanced Grenade
Launcher Module (EGLM)

Enhanced Indirect
Fire Munitions (EIFM)

CQB Receiver (CQBR)



Special Purpose Receiver (SPR)



Many Block I Legacy Systems Remain In Service

VISION

EVOLUTIONARY ACQUISITION TOP MAP

FY 05-11

BLOCK 3

FY 00-07

BLOCK 2

FY 94-04

BLOCK 1

(Funded Requirements Only)



CQBR & SPR



FMBS



ECOS



EGLM



CNVD



EIFM



GLSNSM



Block 1 Sub-Systems

| | |
|-----------------------------------|--|
| M4A1 Carbine (Army System) | |
| Backup Iron Sight | |
| Rail Interface System | |
| Forward Handgrip | |
| QD Suppressor | |
| AN/PEQ-5 | |
| AN/PEQ-2 (Upgrade) | |
| Visible Bright Light (VBL I & 2) | |
| Dayscope | |
| Reflex Sight | |
| M203 Grenade Launcher Mount/Sight | |
| 9" 203 Barrel | |
| Universal Pocketscope Mount (UPM) | |
| Mini Night Vision Sight (MNVS) | |
| 16 Gun Hard Case | |
| 4 Gun Hard Case | |

